



2002

Postgraduate Studies

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Message from the Vice Chancellor

In choosing a university to pursue a postgraduate programme, one has to weigh out many options. Will there be adequate facilities - state-of-the-art laboratories and equipment, modern library, computing facilities etc - that can contribute to and promote the creation of a conducive research culture and learning experience? Will there be a sufficient pool of academic staff and researchers who are inspirational and committed to the pursuits and advancement of new knowledge and its applications? Will my experience as a UNIMAS postgraduate student be a challenging, fulfilling and rewarding one, socially and intellectually? Indeed in building the foundation for credibility and excellent of our postgraduate programmes, we have given our fullest attention to these critical criteria. This brochure aims to provide the information and answers to all these questions. Let me extend you a warm welcome to an intellectually-stimulating environment amidst the greeneries of our campus at Kota Samarahan, invigorated by teaching staff and researchers who are leading figures in their fields.

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reflected in the recognition and high profile accorded by the international scientific community to some of our research activities only after a short time of our existence.

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OUR PROFILE AND COMMITMENT



Since its establishment in 1993, UNIMAS has held the distinction of being **open and contemporary** in its approach to provide the best possible education and training for its students.

We take pride in our **highly-calibre staff and researchers**, our modern research facilities and campus-wide computer networking and services.

UNIMAS is located on the island of Borneo where there is **tremendously rich diversity of culture, heritage and nature**. We have planned our research programme to build upon this wealth and to take advantage of and learn from the diversity which surrounds us.

Our level of commitment to research in a broad coverage of areas can stand up to the keenest scrutiny. UNIMAS' 'newness and smallness' offer the rare prospect of focusing on **quality** and assertively seeking for a culture of **excellence**.

Postgraduate teaching and research have always occupied the highest profile in all its endeavours and achievements. The graduate programmes and research are constantly reviewed and monitored to maintain a **learning environment of the highest quality.**



OUR KEY FEATURES

UNIMAS Campus is at Kota Samarahan, 21km from Kuching the Capital City of Sarawak, Malaysia. It has a **peaceful country resort** setting with excellent public transport connections to the urban attractions of Kuching.

We offer **academic excellence** across a wide range of subjects from the creative dimensions of performing arts, music and industrial designs to the highly technical skills of medicine, engineering and information technology.

Our institutional **commitment to research** is reflected in the recognition and high profile accorded by the international community to some of its research achievements shortly after its establishment in 1993.

The academic staff are committed to **novel and innovative teaching-learning methods** to ensure academic support for all students and quality is monitored through regular student feedback.

UNIMAS offers an assortment of **multidisciplinary and market-driven programmes** available as taught Masters degrees to meet the demands of both public and industrial sectors of today.

Our student population is drawn from **diverse social and multicultural backgrounds** to provide a healthy intermingling and cross-fertilization of rich ethnic cultures of Borneo and the ASEAN region with that of the developed nations.

The Estate Development of the university constantly upgrades campus facilities to create a **vibrant, social, cultural and sporting life** for the leisure activities of the campus community.

HOW ARE WE ORGANISED?



Degree courses at UNIMAS are designed to represent the multidisciplinary nature of new knowledge. Postgraduate courses are offered through the establishment of 8 Faculties covering an expansive range of academic disciplines and 5 multidisciplinary Research Institutes.

- Faculty of Economics and Business
 - Faculty of Engineering
 - Faculty of Medicine and Health Sciences
 - Faculty of Cognitive Sciences and Human Development
 - Faculty of Social Sciences
 - Faculty of Resource Science and Technology
 - Faculty of Applied and Creative Arts
 - Faculty of Information Technology
-
- Institute of Biodiversity and Environmental Conservation
 - Institute of Health and Community Medicine
 - Institute of East Asian Studies
 - Institute of Design and Ergonomics Application

OUR POST-GRADUATE SERVICES



Accommodation

The present temporary campus of the university provides limited residential facilities for graduate students. Currently most graduate students live off-campus in modern terrace houses found in abundance in several townships conveniently-located on the periphery of Kuching city. They commute daily to campus which is only twenty minutes away by car or public transport.

Information Services

Students and staff of UNIMAS have access to a wide range of information, reference materials and computing services. The Centre for Academic and Information Services (CAIS) on campus provides a comprehensive infrastructure of computer services to enable access to information and bibliographic collections. Users can access the bibliographic database at the Center as well as remotely through VTLS (Virginia Tech Library System) and EasyPAC (an online public access catalogue). Additionally the CAIS has acquired a CD-ROM networking system (CDNET) to enable networked users to access databases in CD-ROM from their laboratories, offices or homes.

Information Technology and Multimedia Services

A wide variety of computing equipment and utilities especially the Faculty of Information Technology allow students to explore the exciting world of IT are available. The INTERNET is widely accessible from just about any desktop. The Centre for Applied Learning and Multimedia (CALM) houses state-of-the-art facilities to support multimedia R & D, video-conferencing and open learning. The modern Multimedia Theatre is equipped with advanced audiovisual and video conferencing technologies, integrated intelligently on the SchoolNet system, providing a training and usability testing environment for

published multimedia products. An electronic image bank provides further support to multimedia developers, where multimedia visuals and sound are stored digitally on the server and accessible campus-wide through its ethernet and ATM local area networks.



WHY BECOME A POST-GRADUATE?

People around the globe choose to further their education in a number of ways. Life is about moving forward, and not a single day is spent without learning. Those who choose to structure their learning and to tailor their education to suit their needs find post-graduate study both enlightening and rewarding. Becoming a post-graduate student enables a person to pursue their interests and develop skills in specialised areas either through applied research or a combination of research and coursework. Through post-graduate work, a student has the opportunity to learn the latest development in a particular discipline, and enhance their prospects for career development. Many seek post-graduate study as a way of enhancing one's career. Others simply seek to enhance their knowledge and understanding of a discipline, while others still do so purely for personal enhancement and a feeling of accomplishment.



POST-GRADUATE DEGREES

The University offers a broad range of post-graduate opportunities across an even broader range of disciplines. Master or Doctorate degrees are offered through research programmes or combinations of research and coursework on a full or part-time basis. Each application to study at post-graduate level is considered on its own merit, and students are welcomed either directly from existing under-graduate degrees or returning after a career or academic break.

Degree by Research

Comprehensive training will be conducted through direct contribution to the advancement of knowledge in a particular subject area. Original exploration and experimentation will culminate in the preparation of a research thesis at the end of a study period.

Candidates will be judged by an external examiner who is an independent expert in the field and through oral examination conducted by a faculty-based post-graduate committee.

Candidates may also be required to attend relevant general training courses and lectures to improve their knowledge on certain areas related to their field of study.

Degree by Coursework

UNIMAS offers taught courses leading to a number of Masters degree and Post-graduate diplomas. Generally taught courses fulfill two basic objectives, which are:

- To enhance the candidate's understanding of a previously studied subject; and
- To aid in obtaining up-to-date information in a new area of study

Assessment of coursework-based degrees varies, depending on the programme, and includes formal examinations, reports, term papers, and written dissertations based on short case studies or on materials from secondary sources.

Academic Year

The UNIMAS academic year is divided into 3 semesters. The first semester runs from May to October, second semester from November to March and the third from March to May. The exact dates for each of these semesters may vary from year to year. Post-graduate students may register for research work of coursework programmes at the beginning of any of the three semesters above.



FEES (applicable to Research based programme only)

Master's Degree

Non-Recurrent Fees

Processing Fee	RM 15.00
Registration	RM 50.00
Caution Money (non-refundable)	RM100.00
Examination	RM300.00
Re-Examination	RM300.00

Recurrent Fee (Annually)

Research	Full Time (RM)	Part Time (RM)
Pure Science	1200.00	900.00
Applied Science	1300.00	975.00
Technology	1400.00	1050.00
Arts	700.00	525.00
Professional Arts	900.00	675.00

Health Services	50.00
Takaful	6.00
Lab Fee	100.00
Welfare Fund	10.00
Services	100.00

Special Fee for International Students

Within ASEAN Region	300.00
Outside ASEAN Region	600.00

Doctoral Degrees

Non-Recurrent Fees

Processing Fee	RM 15.00
Registration	RM 50.00
Caution Money (non-refundable)	RM100.00
Examination	RM500.00
Re-Examination	RM500.00

Recurrent Fee (Annually)

Research	Full Time (RM)	Part Time (RM)
Pure Science	1500.00	1125.00
Applied Science	1625.00	1220.00
Technology	1750.00	1320.00
Arts	875.00	660.00
Professional Arts	1125.00	850.00

Health Services	50.00
Takaful Insurance	6.00
Lab Fee	100.00
Welfare Fund	10.00
Services	100.00

Special Fee for International Students

Within ASEAN Region	300.00
Outside ASEAN Region	600.00

Note: All fees and other charges are liable to review and change without prior notice.

FEES (applicable to Coursework based programme only)

- Human Resource Development (HRD) - RM15,000.00 (for two years)
- Corporate Master of Business Administration (CMBA) - RM18,000.00 (for two years)
- Master in Information Technology - RM14,565.00 (for the whole programme)
- SLUSE-M - RM2,880 (for 16 months)
- Integrated Engineering Graduates Programmes (IEGP) - RM19,800.00 (for 1 year)

Financial Guarantee

Before registration, prospective students are required to provide written evidence of ability to pay the fees and support their living costs as a graduate student.



SCHOLARSHIPS

UNIMAS Research Assistantship

UNIMAS internal short-term research grants provide a limited amount of support for graduate students employed as research assistants. Research students are given the opportunity to work full-time or part-time under the research project related to their research work. The research assistantship offers RM1419.00 per month or less depending on the number of working days and hours per day. Interested candidates need to register as a student before they can apply for the assistantship.

The Post-graduate and Post-doctoral Programme under PTPTP and National Science Fellowship

Malaysian students may be eligible for studentship awards from the above fund given by the Ministry of Science, Technology and Environment. The objective of this fund is to encourage research activities among graduate students who have high potential for future leadership in R&D. The awards provide a stipend of RM1600 for Master students, RM2000 for PhD students, tuition fees and expense to attend an annual conference/seminar. Awards are open to candidates in the fields of advanced materials, microelectronics, information technology, energy and environment, biotechnology and advanced automation technology.

Other Sources of Financial Support

From time to time, UNIMAS receives external funding to support research activities that also provide a limited amount of support for research students. Details of these funding opportunities will be advertised internally. Only students of UNIMAS are eligible for such funding.



INTERNATIONAL STUDENTS

We welcome applications from overseas students who help to create a lively international community on campus. A significant and colourful presence of international students on campus will undoubtedly help in the contribution of valuable perspectives to our post-graduate studies, based on their own individual cultures, and political and social outlooks.



ENTRY REQUIREMENTS

English Language Requirement

The majority of UNIMAS courses are conducted in Bahasa Malaysia. However, a good working knowledge of English is essential as most research and reference material is in this language. Applicants whose first language is not English will be required to provide evidence of recognised English Language qualifications. Those without a satisfactory level of English may be required to undergo an intensive course in English pursuant to their admission into the post-graduate programme.

Doctor of Philosophy

The candidates must possess:

- A Master's Degree with a good pass from an approved university in an area relevant to the student's proposed area of research OR
- Other equivalent qualification approved by the University OR
- Presently registered in a Masters program at UNIMAS and convert to a doctoral program with the approval of the Senate of the University

Masters Degree

The candidates must possess:

- A Bachelors Degree with at least Honours Second Class Upper or equivalent CGPA from an approved university in an area relevant to the candidate's area of research or study OR
- Other equivalent qualifications approved by the University

DURATION OF STUDY

Post-graduate studies at UNIMAS may be pursued on a full or part-time basis. The defined minimum and maximum time limits for the full and part-time courses will be determined by the Faculty/Institutes in which the students are enrolled.

For part-time courses, UNIMAS must be satisfied with the candidate's proposed study arrangement. A combination of full-time and part-time study may be approved at the discretion of the University.

Doctor of Philosophy

Minimum of:

Three and four calendar years for full-time candidates

Four to six calendar years for part-time candidates

Masters Degree

Minimum of:

One and three calendar years for full-time candidates

Two and five calendar years for part-time candidates



PROGRAMMES BY RESEARCH



Faculty of Economics and Business

The Faculty of Economics and Business offers post-graduate studies in the broad areas of economics and business. Emphasis shall be given to the following areas:

- International Finance
 - Banking System/ Activities
 - Stock Market
- Industrial Economics & Organisation
- Theories of the firm
- Business Information System
- Trade and Development
- Tourism Marketing and Management
- Small and Medium Industries

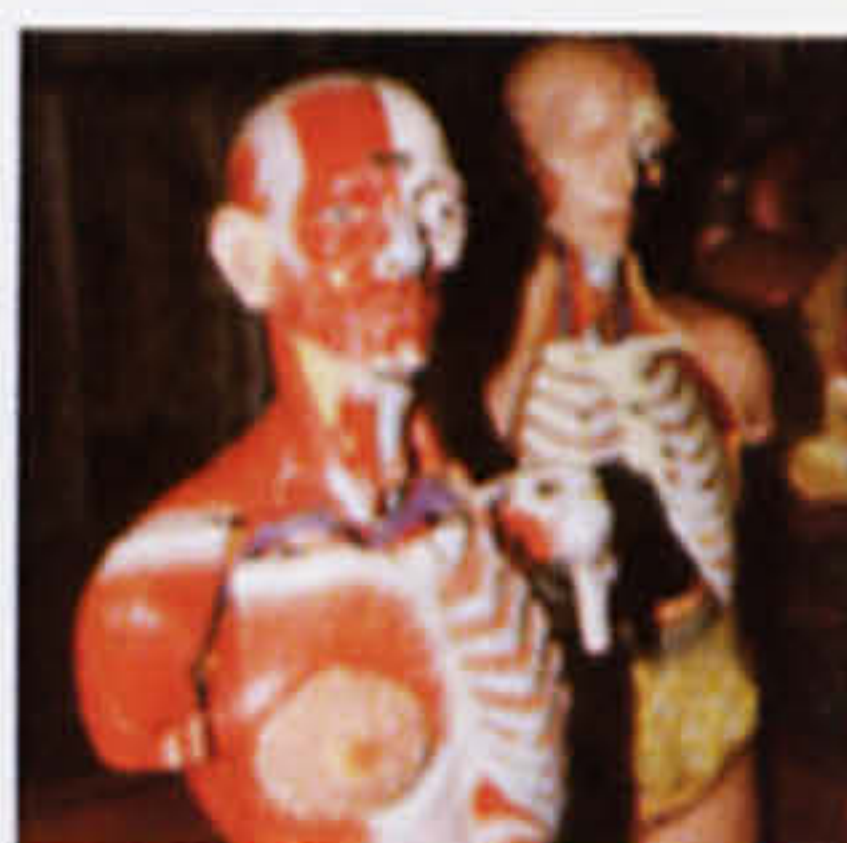


Faculty of Engineering

The Faculty of Engineering is committed to offer Post-Graduate research programmes covering a comprehensive range of specialisations under the three main engineering disciplines as below:

- Communication Systems
- Digital Systems
- Microelectronics
- Mobile and Personal Communications
- Networks and Communications
- Optoelectronics
- Structural Engineering
- Water Resources Engineering and Application of GIS
- Geotechnical Engineering
- Environmental Engineering
- Advance Materials
- Condition Monitoring and Maintenance Management
- Advanced Manufacturing Technology
- Thermo & Turbo Fluids
- Energy Studies
- Computer Aided Design and Testing
- Engineering Mathematical Modelling

Faculty of Medicine and Health Sciences



Post-Graduate programmes for health personnel are aimed primarily at promoting health in general through relevant training of Post-Graduate students in the area of:

- Medical Entomology & Vector Biology
- Malaria Transmission & Parasite Diversity
- Nutritional Assessment & Health Education
- Neurosciences & Sleep Disorders
- Nursing Education
- Resource Allocation in Health & Educational
- Human Physiology
- Public Health



Faculty of Cognitive Science and Human Development

The Faculty of Cognitive Science and Human Development, basically aims to enhance understanding of the human cognitive processes, the development of human potential and also of the development of intelligent systems and devices. In order to achieve this aim, research activities of the Faculty are being focussed into the following seven broad categories of niche areas:

- Cognitive Psychology
- Training Management
- Human Development
- Cognition & Learning
- Learning Technology
- Human Resource Development
- Organizational Counselling



Faculty of Social Sciences

Social Science is a systematic study of change in human society. In research, the faculty also maximises the advantages of its geographical location - being on the island of Borneo, by building strength in such areas as:

- Community Development
- Resource Tenure
- Ethnicity and Minority Groups
- Industrial Relations
- Gender
- Regional and Malaysian Politics



Faculty of Resource Science and Technology

The Faculty of Resource Science and Technology specializes in the study of natural resources, both living and non-living, encompassing types and classification, prevalence and distribution, ecological roles and significance, economic exploitation, preservation and conservation. Emphasis is given to management approaches, scientific and technological advances. Faculty research niche areas are:

Sustainable Resource Management

- Tropical Biodiversity Studies
- Plant Ecology
- Animal Biology and Conservation
- Plant Tissue Culture and Cryopreservation
- Plant and Animal Systematics

Environmental Studies

- Coastal and Estuarine Ecosystems
- Benthic Ecology
- Aquaculture Effluent Management
- Marine Toxicology
- Profiling of Biogenic and Petrogenic Hydrocarbons in the Environment
- Distribution and Fate of Heavy Metals

- Water Quality Studies
- Water Resource Management

Natural Products

- Medicinal Plants
- Essential Oils
- Biopesticides
- Phytochemistry
- Bioactive Compounds
- Non-Wood Forest Products

Molecular Biology and Biotechnology

- Sago Molecular Biology
- Sago Starch and By-Products Utilization
- Molecular Phylogenetics
- Microbial Degradation of Toxic Compounds
- Human Molecular Biology
- Molecular Ecology



Faculty of Applied and Creative Arts

The Faculty of Applied and Creative Arts offers graduate studies by research in various practical and theoretical areas of the arts. The Faculty gives graduate students the opportunity to work closely with staffs who have nationally and internationally recognized expertise in the following disciplines:

- Fine Arts
- Music
- Drama and Theatre
- Cinematography
- Fashion and Textiles
- Industrial Design
- Graphic Design
- Arts Management
- Art History and Theory



Faculty of Information Technology

The Faculty of Information Technology offers a broad spectrum of computing/IT courses and research opportunities at the leading edge of technology which are not only fascinating but industry-relevant. Faculty research niche areas are:

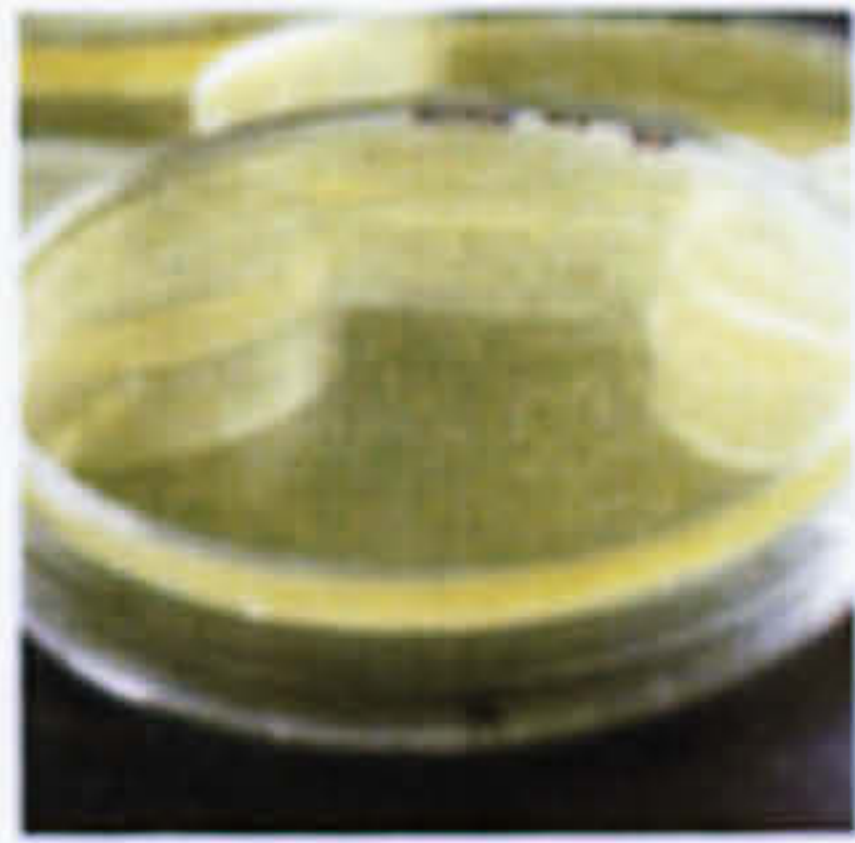
- Information Infrastructure
- Imaging and Spatial Information Technology
- Information System
- Computational Science



Institute of Biodiversity and Environmental Conservation

Research and teaching programmes in IBEC have been established on the following concepts: that acquisition of knowledge on local biodiversity is vitally important in environmental conservation and that, possible modes of sustainable development may provide greater options of significant opportunities for diversification of industrial activities and economic development in Malaysia. The research activities at IBEC are:

- Systematic studies of flora and fauna
- Collection of plants and animals of Borneo for permanent preservation
- Collection of plant and animal DNA for permanent archiving and for analysis of phylogenetic relationship
- Development of a biodiversity database on the flora and fauna of Borneo
- Production of GIS in Borneo
- Relationship between biodiversity, nature preserves and shifting cultivation
- Development of a Coastal Zone Management Plan for Sarawak and Sabah



Institute of Health and Community Medicine

The research programmes of the Institute of Health and Community Medicine are designed to take a multidisciplinary as well as a systems approach to infectious diseases and non-communicable diseases, and the projects within the scope of each programme often are interrelated within as well as across programmes. The institute niche areas are:

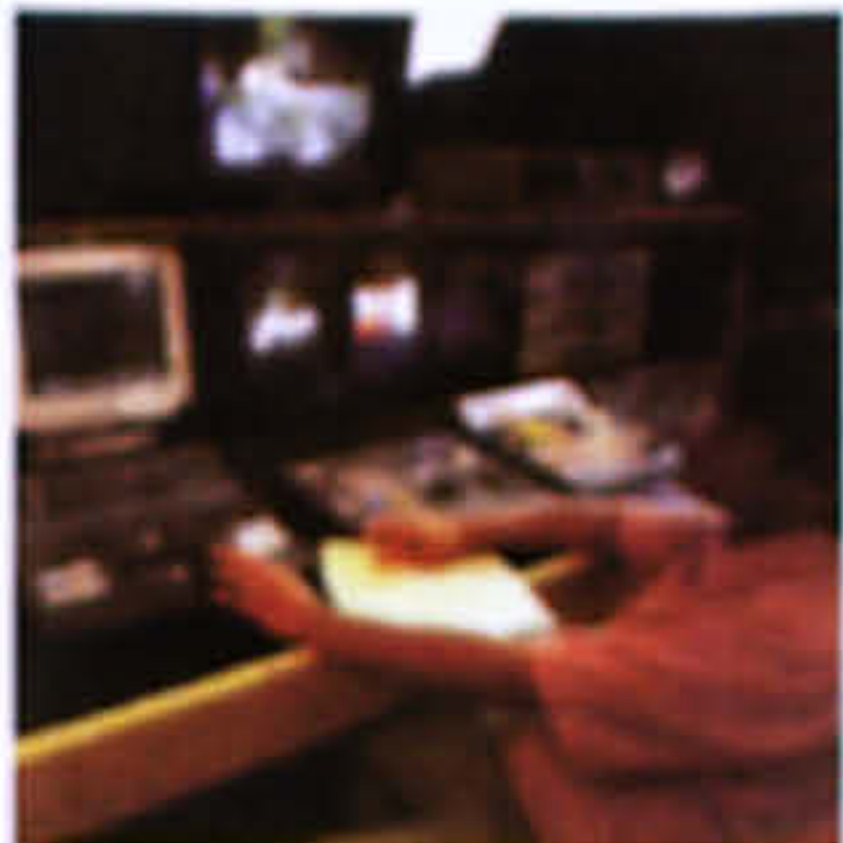
- Vaccine Design
- Emerging Diseases
- Vector Borne Diseases
- Drug Discovery



Institute of East Asian Studies

Taking advantage of the University's strategic location, the Institute of East Asian Studies encourages a deeper understanding of change in the regional and global socio-economic environment. The institute's role is to facilitate a range of interdisciplinary programmes and activities to advance a better understanding of Borneo/Kalimantan in a regional perspective. The research focus includes:

- Political Economy
- Policy Studies
- Ethnography and Anthropology
- Regional and International Relations
- East Asian Growth Area



Institute of Design and Ergonomics Applications

IDEA offers academic programmes and professional training, aimed at enhancing industrial awareness of the importance of design and ergonomics. Current and future R&D projects focus on topical niche areas as follows:

- Computer supported cooperative work (CSCW)
- Human performance and skills
- Office ergonomics
- Speech and cultural interfaces
- Usability studies
- Virtual environments
- Web based product design

CENTRE FOR LANGUAGE STUDIES

The Centre for Language Studies (CLS), established in 1996, aspires to become a centre of excellence in language research and scholarship in Malaysia and Asian Region. The centre offers Post-graduate courses in languages includes:

- Language Teaching, Learning and Acquisition
- Linguistics/Ethnolinguistics
- System Functional Linguistics



PROGRAMMES BY COURSEWORK

Universiti Malaysia Sarawak also offers Master programme by coursework as listed below:

- Human Resource Development (HRD) offered by Faculty of Cognitive Science and Human Development
- Corporate Master of Business Administration (CMBA) offered by Faculty of Economics and Business
- Master in Information Technology offered by Faculty of Information Technology
- SLUSE-M offered by faculty of Resource Science & Technology and Faculty of Social Sciences
- Integrated Engineering Graduates Programmes (IEGP) offered by Faculty of Engineering

For more information on these coursework programmes, please contact the respective faculty.



HOW TO APPLY

At Universiti Malaysia Sarawak, post-graduate study is made easy through the decentralised system, whereby students may apply directly to the Graduate Studies and Research Support Division. Once approved, students will have the opportunity to discuss directly with experts in their respective fields at the/ Faculties/ Institutes/ Centres. At UNIMAS we believe in a personal approach, whereby students are encouraged to plan and work closely with their prospective supervisors to create a tailor-made study programme. Prospective students should check that they satisfy the entry requirements for the desired programme of study. Graduate Studies and Research Support Division can provide specific information regarding necessary qualifications and suitability for admission. For academic information about research area, potential supervisors and research resources, please contact the relevant faculties or institutes. Complete the relevant application forms with information like programme interest, qualifications together with copies of academic certificates and transcripts, referees letter and send them to the Graduate Studies and Research Support Division. Entry for most programmes is competitive, so candidates need to give the selectors enough information to access applications.

Application forms and details on how to apply can be obtained from:

**Assistant Registrar
Graduate Studies and Research Support Division
Universiti Malaysia Sarawak
94300 Kota Samarahan
Sarawak, Malaysia**



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Faculty of Cognitive Science and Human Development	+6082 671000 ext 410	+6082 672281	mnapsiah@fcs.unimas.my
Faculty of Social Sciences	+6082 671000 ext 356	+6082 672305	gtnoweg@fss.unimas.my
Faculty of Resource Science and Technology	+6082 671000 ext 263	+6082 672275	lsabdin@frst.unimas.my
Faculty of Applied and Creative Arts	+6082 671000 ext 648	+6082 672314	fadzil@faca.unimas.my
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Institute of Health and Community Medicine	+6082 671000 ext 252	+6082 671903	jcardosa@ihcm.unimas.my
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Universiti Malaysia Sarawak homepage is at <http://www.unimas.my>

Universiti Malaysia Sarawak postgraduate homepage is at <http://www.postgrad.my>

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